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## NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

02/20/2008

MAGINOT, MOOR & BECK 111 MONUMENT CIRCLE, SUITE 3000 BANK ONE CENTER/TOWER INDIANAPOLIS, IN 46204 EXAMINER

HANSEN, STUART ALAN

ART UNIT PAPER NUMBER

2838

DATE MAILED: 02/20/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529.615	03/30/2005	Marc Fahlenkamp	1890-0215	1615

TITLE OF INVENTION: SWITCHING MODE POWER SUPPLIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	05/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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(571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 50255 7590 02/20/2008 Certificate of Mailing or Transmission MAGINOT, MOOR & BECK I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 111 MONUMENT CIRCLE, SUITE 3000 BANK ONE CENTER/TOWER INDIANAPOLIS, IN 46204 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/529,615 03/30/2005 Marc Fahlenkamp 1890-0215 1615 TITLE OF INVENTION: SWITCHING MODE POWER SUPPLIES APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1440 \$300 \$0 \$1740 05/20/2008 **EXAMINER** ART UNIT CLASS-SUBCLASS HANSEN, STUART ALAN 2838 363-021150 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this fo Advance Order - # of Copies \_ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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50255 75	590 02/20/2008		EXAM	INER
MAGINOT, MO	OR & BECK	HANSEN, STUART ALAN		
	CIRCLE, SUITE 300	ART UNIT	PAPER NUMBER	
BANK ONE CEN INDIANAPOLIS,	· -		2838 DATE MAILED: 02/20/200	8

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 208 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 208 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/529,615	FAHLENKAMP ET AL.			
Notice of Allowability	Examiner	Art Unit			
	STUART HANSEN	2838			
	STUART HANSEN	2030			
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in th or other appropriate communic IGHTS. This application is sub-	is application. If not included cation will be mailed in due course. <b>THIS</b>			
1. X This communication is responsive to After-Final Amendme	nts/Arguments filed 28 January	<u>v 2008</u> .			
2. X The allowed claim(s) is/are 14-16,18-29 and 31-34.					
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		(f).			
2. Certified copies of the priority documents have	been received in Application N	No			
3. Copies of the certified copies of the priority do	cuments have been received in	n this national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.				
INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	•	PTO-948) attached			
1)  hereto or 2)  to Paper No./Mail Date					
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or in	the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Infor	mal Patent Application			
<ol> <li>Notice of References Cited (PTO-092)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Sum				
3. ☐ Information Disclosure Statements (PTO/SB/08),		ail Date			
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit		atement of Reasons for Allowance			
of Biological Material	9.				
	/Jeffrey L. Sterrett/ Primary Examiner, Ar	t Unit 2838			

### **DETAILED ACTION**

1. This Office Action is written in response to the After-Final Amendments filed January 28<sup>th</sup>, 2008.

## Allowable Subject Matter

- 2. Claims 14 16, 18 29 and 31 34 are allowed.
- 3. With respect to independent claims 14, 26, 33 and 34, the allowability resides in the overall structure of the device at least in part because of the transformer, transistor switch, control unit, and blanking window circuit configured to prevent the control unit from disabling switching of the transistor in the case that the signal is below the second lower threshold value for less than a preset period of time as claimed.

The aforementioned limitations in combination with all remaining limitations of claims 14, 26, 33 and 34 are believed to render said claims and all claims dependent therefrom patentable over the art of record.

4. With respect to independent claim 22, the allowability resides in the overall structure of the device at least in part because of a current limitation circuit arranged to receive a first signal indicative of the current through the primary of the transformer and to limit the current pulses responsive to a signal that is indicative of a condition in which both the first signal indicates that the current is above a burst mode threshold value and the memory device indicates that the switching mode power supply is operating in the burst mode.

The aforementioned limitations in combination with all remaining limitations of claim 22 are believed to render said claim and all claims dependent therefrom patentable over the art of record.

# Response to Arguments

5. Applicant's amendments and arguments, filed January 28<sup>th</sup>, 2008, have been fully considered and are persuasive. The rejection of all claims has been withdrawn.

#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Imazeki et al. (US 4,330,816), Elliott et al. (US 5,029,269), Spampinato et al. (US 6,061,257), Yimada (US 6,134,123), Allen et al. (US 6,538,419) and Yang et al. (US 6,674,656) all teach switch mode power supplies similar to that of the present application.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STUART HANSEN whose telephone number is (571)270-1611. The examiner can normally be reached on 7:30- 4; Monday Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.